

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042397.D
 Acq On : 19 Jul 2024 12:20
 Operator : JC/MD
 Sample : VX0719WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0719WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/19/2024
 Supervised By : Mahesh Dadoda 07/22/2024

Quant Time: Jul 19 16:07:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.898	128	36191	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	215607	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	199950	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	78225	30.175	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.567%			
60) 4-Bromofluorobenzene	11.079	95	93604	30.088	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.300%			
63) Toluene-d8	8.647	98	258394	29.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.167%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	44618	20.568	ug/l	97
3) Chloromethane	1.295	50	46150	20.345	ug/l	98
4) Vinyl Chloride	1.374	62	44605	19.794	ug/l	100
5) Bromomethane	1.599	94	22931	20.271	ug/l	99
6) Chloroethane	1.666	64	21950	22.601	ug/l	98
7) Trichlorofluoromethane	1.874	101	60497	21.457	ug/l	100
8) Diethyl Ether	2.136	74	24195	20.462	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	45980	20.940	ug/l	99
10) 1,1-Dichloroethene	2.307	96	43439	20.586	ug/l	97
11) Methyl Iodide	2.447	142	43856	18.382	ug/l	97
12) Methyl Acetate	2.703	43	75602	21.799	ug/l	99
13) Acrolein	2.240	56	47465	108.947	ug/l	99
14) Acrylonitrile	3.069	53	135718	104.205	ug/l	97
15) Acetone	2.386	58	40668	104.975	ug/l	99
16) Carbon Disulfide	2.502	76	83402	19.994	ug/l	99
17) Allyl chloride	2.660	41	71840	21.397	ug/l	95
18) Methylene Chloride	2.788	84	50337	20.888	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	43849	20.572	ug/l	96
20) Diisopropyl ether	3.764	45	147235	20.810	ug/l	99
21) 1,1-Dichloroethane	3.605	63	82456	20.530	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	54672	20.482	ug/l	97
23) tert-Butyl Alcohol	2.989	59	58928	118.723	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	145960	20.724	ug/l	100
25) Chloroform	5.087	83	84030	20.243	ug/l	98
26) Cyclohexane	5.458	56	67617	20.328	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	55899	19.882	ug/l	98
30) 2-Butanone	4.562	43	190511	101.492	ug/l	100
31) 2,2-Dichloropropane	4.471	77	65502	20.266	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	72075	19.847	ug/l	100
33) Carbon Tetrachloride	5.672	117	61954	19.535	ug/l	98
34) Benzene	6.032	78	182465	19.765	ug/l	99
35) Methacrylonitrile	4.922	41	36955	19.950	ug/l	96
36) 1,2-Dichloroethane	6.080	62	59446	19.854	ug/l	99
37) Trichloroethene	7.123	130	49578	19.970	ug/l	93
38) Methylcyclohexane	7.373	83	73188	20.244	ug/l	99
39) 1,2-Dichloropropane	7.428	63	44807	19.744	ug/l	96
40) Dibromomethane	7.580	93	32621	19.915	ug/l	98
41) Bromodichloromethane	7.818	83	60074	19.554	ug/l	98
42) Vinyl Acetate	3.721	43	618284	101.808	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	64347	19.316	ug/l	100
44) Isopropyl Acetate	6.342	43	103844	19.844	ug/l	99
45) 1,4-Dioxane	7.665	88	25421	433.603	ug/l	98
46) Methyl methacrylate	7.690	41	52385	20.541	ug/l	97
47) n-amyl Acetate	10.842	43	93755	20.163	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	61311	20.018	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	69327	20.138	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	47941	19.957	ug/l	96
51) Ethyl methacrylate	9.116	69	75162	20.008	ug/l	99
52) 1,3-Dichloropropane	9.305	76	78262	20.056	ug/l	99
53) Dibromochloromethane	9.519	129	52661	19.949	ug/l	98
54) 1,2-Dibromoethane	9.610	107	50499	20.213	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	219558	120.580	ug/l	99
56) Bromoform	10.799	173	40851	19.202	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	369153	104.757	ug/l	99
59) 2-Hexanone	9.433	43	289381	104.846	ug/l	99
61) Tetrachloroethene	9.269	164	49183	20.276	ug/l	98
62) Toluene	8.714	91	200242	20.031	ug/l	100
64) Chlorobenzene	10.080	112	136006	20.161	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	48888	20.139	ug/l	97
66) Ethyl Benzene	10.189	91	222792	20.451	ug/l	97
67) m/p-Xylenes	10.299	106	179606	41.237	ug/l	99
68) o-Xylene	10.640	106	87836	20.264	ug/l	100
69) Styrene	10.653	104	149464	20.502	ug/l	99
70) Isopropylbenzene	10.964	105	230797	20.884	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	77221	20.305	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	62910m	20.834	ug/l	
73) Bromobenzene	11.195	156	64630	20.463	ug/l	99
74) n-propylbenzene	11.305	91	254313	20.830	ug/l	100
75) 2-Chlorotoluene	11.360	91	157493	20.512	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	192220	20.819	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	22233	20.075	ug/l	90
78) 4-Chlorotoluene	11.451	91	175884	20.564	ug/l	99
79) tert-butylbenzene	11.713	119	204230	20.721	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	193442	20.822	ug/l	98
81) sec-Butylbenzene	11.890	105	242135	20.791	ug/l	100
82) p-Isopropyltoluene	12.006	119	212642	21.070	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	116554	20.545	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	117071	20.776	ug/l	99
85) n-Butylbenzene	12.329	91	164065	20.699	ug/l	99
86) Hexachloroethane	12.536	117	33542	19.545	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	117234	20.445	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15594	20.015	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	79055	20.365	ug/l	99
90) Hexachlorobutadiene	13.725	225	40120	20.825	ug/l	98
91) Naphthalene	13.774	128	238740	20.624	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	81484	20.379	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

